

LIMITED WARRANTY

This product is warranted to the original consumer purchaser to be free from defects in materials and workmanship under normal installation, use and service for a period of one (1) year from the date of purchase as shown on the purchaser's receipt.

The obligation of Rolls Corporation under this warranty shall be limited to repair or replacement (at our option), during the warranty period of any part which proves defective in material or workmanship under normal installation, use and service, provided the product is returned to Rolls Corporation, **TRANSPORTATION CHARGES PREPAID**. Products returned to us or to an authorized Service Center must be accompanied by a copy of the purchase receipt. In the absence of such purchase receipt, the warranty period shall be one (1) year from the date of manufacture.

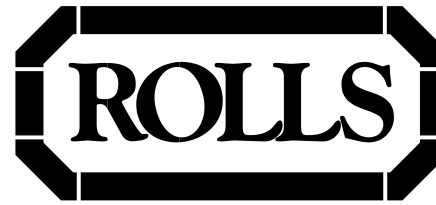
This warranty shall be invalid if the product is damaged as a result of defacement, misuse, abuse, neglect, accident, destruction or alteration of the serial number, improper electrical voltages or currents, repair, alteration or maintenance by any person or party other than our own service facility or an authorized Service Center, or any use violative of instructions furnished by us.

This one-year warranty is in lieu of all expressed warranties, obligations or liabilities. **ANY IMPLIED WARRANTIES, OBLIGATIONS, OR LIABILITIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE ONE YEAR DURATION OF THIS WRITTEN LIMITED WARRANTY.** Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

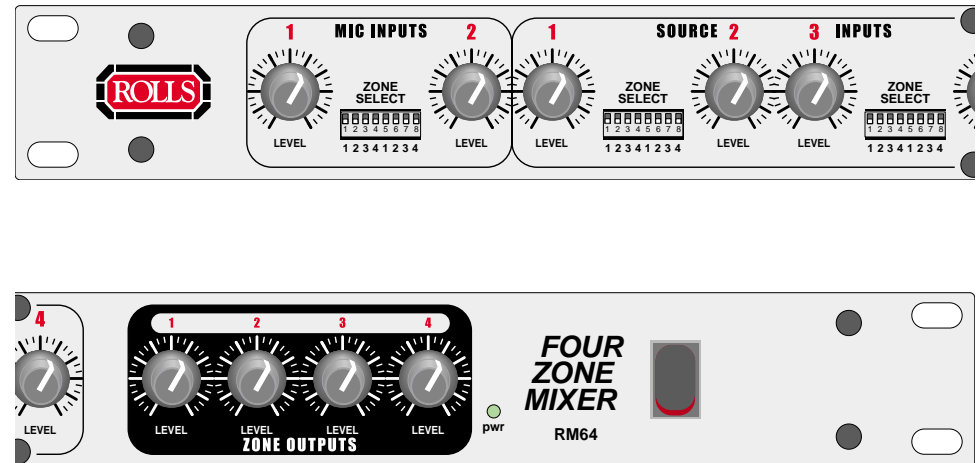
IN NO EVENT SHALL WE BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WHATSOEVER. Some states do not allow the exclusion or limitation of special, incidental or consequential damages so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



ROLLS CORPORATION
SALT LAKE CITY, UTAH
7/02



RM64 FOUR ZONE MIXER



OWNERS MANUAL

Thank your for your purchase of the Rolls RM64 Four Zone Mixer. The RM64 combines two paging microphones with up to four line level source inputs. Each input is switch selected to output to any combination of four zone outputs. The outputs are all balanced XLR connectors, and a 1/4" Remote Volume jack provides each zone with the means for external volume control. The Microphone inputs feature automatic ducking for easy paging.

The RM64 is the ideal solution for banquet rooms, offices, restaurant/night clubs, etc.

NOTE: This unit is intended for professional installation. Certain assumptions have been made that the installer has the required knowledge to properly install and setup and operate the RM64.

FEATURES:

- Two Microphone and Four RCA Source Inputs
- Four XLR Balanced Zone Outputs
- 12 VDC Phantom Power available for each Mic Input
- Remote Volume control jacks fro each Zone Output
- Switchable Ducking for the Mic Inputs

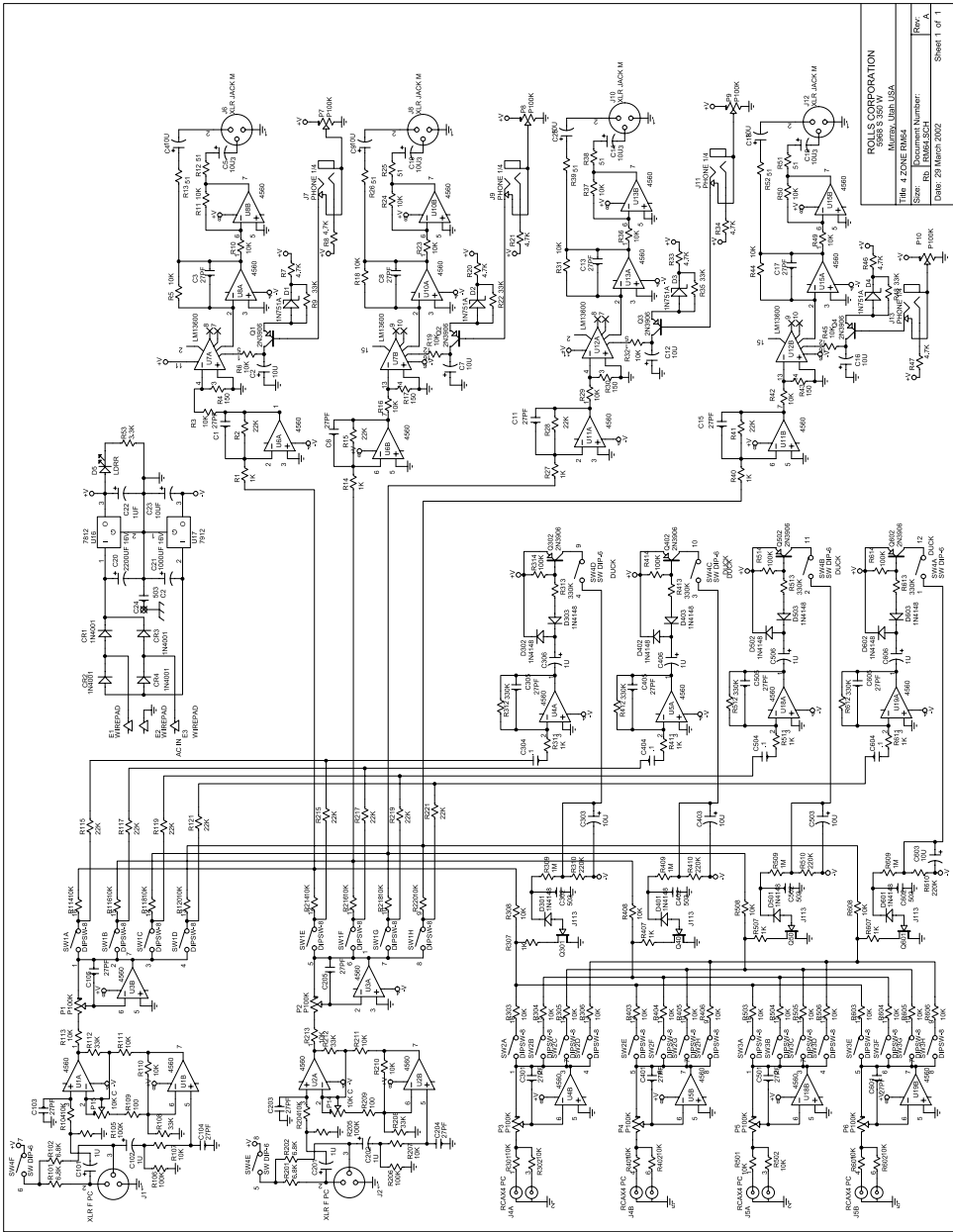
INSPECTION

1. Unpack and inspect the RM64 box and package.
If obvious physical damage is noticed, contact the carrier immediately to make a damage claim. We suggest saving the shipping carton and packing materials for safely transporting the unit in the future.
2. Please visit our website at www.rolls.com for Warranty Registration, or complete the Warranty Registration Card and return it to the factory.

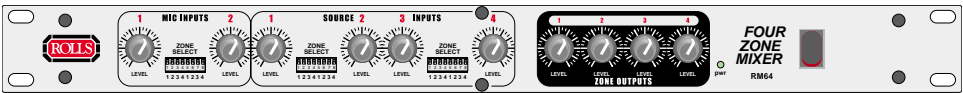
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WARRANTY	BACK COVER

Input Impedance:	10K Ω balanced 50K Ω unbalanced RCA
Output Impedance:	50 Ω Balanced XLR
Max Input Level:	Mic: +10 dB Source: +22 dB
Phantom Power:	+12 Volts DC, 5mA max.
Input Connectors:	XLR and RCA
Outputs:	4 ea. XLR
Max Gain:	60 dB mic 30 dB line
S/N Ratio:	>75 dB
THD	< .3%
IMD (SMPTE)	< .3%
CMRR	90 dB
Frequency Response:	20Hz to 20kHz +/- 0 dB
Power	120 VAC 50-60 Hz, 15 W
Weight:	7 lbs (3KG)
Size:	19" x 1.75" x 6.5" (48cm x 4.5cm x 17cm)



FRONT PANEL



MIC INPUTS 1, 2: These LEVEL controls adjust the volume of the indicated Microphone channel.

SOURCE INPUTS 1 - 4: These LEVEL controls adjust the volume of the indicated Source channel.

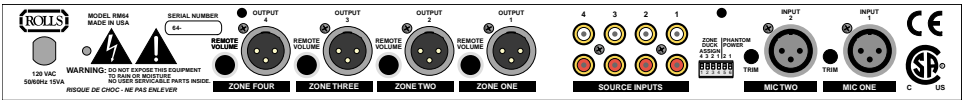
ZONE SELECT: DIP switches for assigning the indicated Mic or Source channel to the Zone Outputs. The four switches closest to the channel LEVEL control assign that channel to the zones.

ZONE OUTPUTS: These LEVEL controls adjust the output volume of the indicated ZONE.

pwr LED: When lit, indicates the RM64 is on.

Power switch: Turns the RM64 on and off.

REAR PANEL



ZONE OUTPUTS 1 - 4: Line level (+4 dB ref.) balanced male XLR jacks for connection to the zone amplifiers.

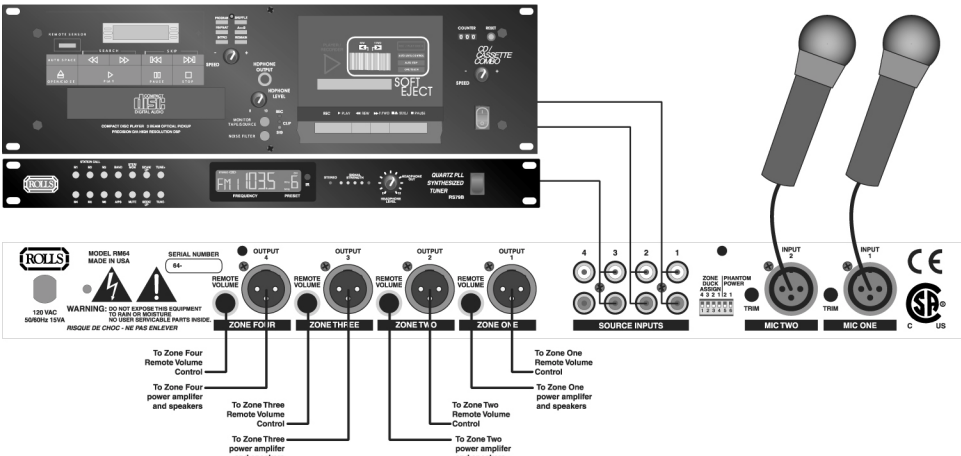
REMOTE VOLUME: These four 1/4" TRS jacks connect to a remote volume potentiometer.

SOURCE INPUTS 1 - 4: RCA input jacks for connection to CD Players, Tuners etc.

ZONE DUCK ASSIGN/PHANTOM POWER SWITCHES: This set of DIP switches, from left to right; the first four assign which zone will have the source signal(s) ducked by the Microphone Inputs, the last two apply phantom power to the indicated microphone channel.

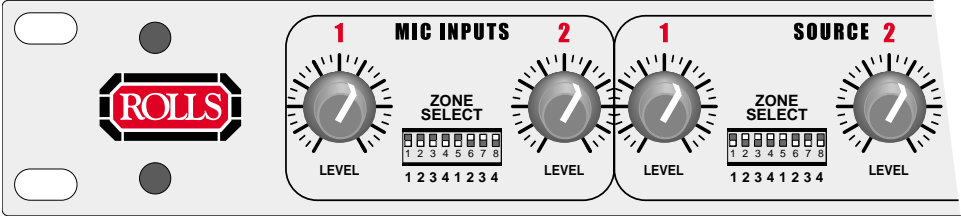
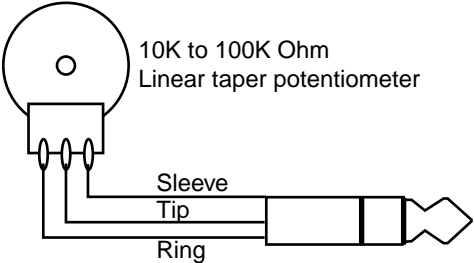
MIC INPUT 1 - 2: Balanced female XLR jacks for connection to dynamic or condenser type microphones.

TRIM 1 - 2: Adjusts the input sensitivity for the indicated Mic Input.



Referring to the diagram above, connect microphones to the MIC INPUTs and apply phantom power where needed. Connect sources such as cassette players, CD players, AM/FM tuners, etc. to the RCA Source Inputs. Note which input each device is connected to as that input corresponds to its front panel Level control. Connect the XLR outputs to their respective zone amplifiers and speakers. The balanced signals are configured to pin 2 hot, pin 3 neutral, and pin 1 ground. For ground lifting it will be necessary to remove the connection to pin 1.

For Remote Volume operation, a Tip-Ring-Sleeve plug will need to be wired to a 10 - 100 K Ohm potentiometer as shown in the diagram below.



SETTING THE DIP SWITCHES

Each input is assigned to a Zone via the four DIP switches nearest that Input Level control. The zone is assigned when the switch is in the DOWN position. For example, the switch settings above send Mic 1 to all four Zones; 1, 2, 3, and 4. Mic 2 is sent to Zone 1 only. Source 1 is sent to Zone 1 and Source 2 is sent to Zones 2, 3, and 4.

The first four rear panel DIP switches assign which zone has priority paging, or ducking, when a signal is present at the microphones. Switches 5 and 6 assign phantom power to the indicated microphone. Shown below; Zones 1, 2, and 3 have paging assigned, and Microphone 1 has the phantom power engaged.

